

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Attorney Docket No. 239/162 DIV.2**

In re patent application of

Chul-Sung KIM, et al.

Serial No.

*[Division of Serial No. 10/102,997, filed March 22, 2002]*

Filed: October 16, 2003

For: METHOD AND DEVICE FOR FORMING AN  
STI TYPE ISOLATION IN A SEMICONDUCTOR DEVICE

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §1.56**

Commissioner for Patents  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB08 (A *and/or* B) is a listing of a document(s) known to applicant in order to comply with applicant's duty of disclosure pursuant to 37 C.F.R. §1.56. These references correspond to the art cited during prosecution of parent application Serial No. 10/102,997, having a filing date of March 22, 2002, on which applicant relies under 35 U.S.C. 120. Accordingly, copies of the references need not be submitted; 37 C.F.R. §1.98(d)(1).

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application. Applicant does not waive any rights to take any action that would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.

The listed document(s) is/are being cited in compliance with 37 C.F.R. 1.97(b)(3): submission before the mailing date of the first action on the merits. [Box checked if applicable.]

- The foregoing document came to applicant's attention during the prosecution of their corresponding Korean application. [Box checked if applicable.]

CERTIFICATION

- The undersigned hereby certifies in accordance with 37 CFR §1.97(e)(1) that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Statement. [Box checked if applicable.]

Applicant respectfully requests that the listed document(s) be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

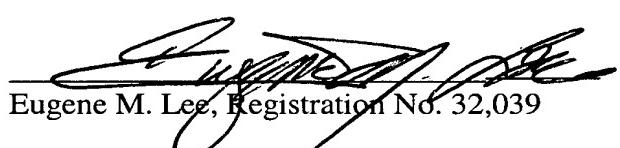
FEES PAYMENT

- The fee mandated by 37 C.F.R. §1.17(p) is believed applicable. [Box checked if applicable.]
- Attached is a check in payment of this fee (\$180.00). [Box checked if applicable.]
- This fee may be charged to Deposit Account No. 50-1645. (A duplicate copy of this paper is enclosed.) [Box checked if applicable.]

Respectfully submitted,

October 16, 2003

Date

  
Eugene M. Lee, Registration No. 32,039

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**DEPOSIT ACCOUNT CHARGE AUTHORIZATION**

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

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**Substitute for form 1449/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

Sheet 1 of 2

**Complete if Known**

Application Number	
Filing Date	October 16, 2003
First Named Inventor	Chul-Sung KIM, et al
Art Unit	
Examiner Name	
Attorney Docket Number	239/162 DIV.2

**U. S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

<b>Examiner Signature</b>		<b>Date Considered</b>	
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>2</sup> Applicant's unique citation designation number (optional).<sup>3</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.<sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>7</sup> Applicant is to place a check mark here if English language Translation is attached

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<i>Complete if Known</i>	
		<b>Application Number</b>	
		<b>Filing Date</b>	October 16, 2003
		<b>First Named Inventor</b>	Chul-Sung KIM, et al
		<b>Art Unit</b>	
		<b>Examiner Name</b>	
Sheet	2	of	2
		Attorney Docket Number	239/162 DIV.2

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
		WOLF, et al., Silicon Processing for the VLSI Era, Vol 1, Process Technology, Lattice Press, p.201		
		LO, et al, MOS Characteristics of Fluorinated ..., IEEE Electron Device Ltrs, 11(11):511-513, (1990)		
		WRIGHT, et al., Hot-Electron Immunity of SiO <sub>2</sub> Dielectrics with Fluorine..., IEEE, pp. 347-348, (1989)		
		HOOK, et al., Correlation Between Fixed Positive Charge and Hot-Electron., IEEE, pp. 471-473, (1997)		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.  
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